

Algebra 2
Mrs. Britton
Section 7.4: Solve by factoring

Name: _____

Date: _____

Solve each equation. *****SHOW ALL YOUR WORK*****

1. $x^3 + 2x^2 - 48x = 0$

2. $a^3 - 8a^2 - 48a = 0$

3. $x^3 - 7x^2 + 10x = 0$

4. $x^3 - 6x^2 - 27x = 0$

5. $x^3 - 49x = 0$

6. $3y^3 + 36y^2 = 3y^4$

7. $x^3 = 25x$

8. $2x^3 - 10x^2 - 100x = 0$

9. $x^3 + 2x^2 - 35x = 0$

10. $2x^3 - 7x^2 + 3x = 0$

11. In words explain how to find the zeros of a polynomial function by using graphing, synthetic division and factoring. Be sure to write complete sentences and include math terms from the learning map/word wall.